

Application No.: 10/803,113
Docket No.: UC0223USCIP

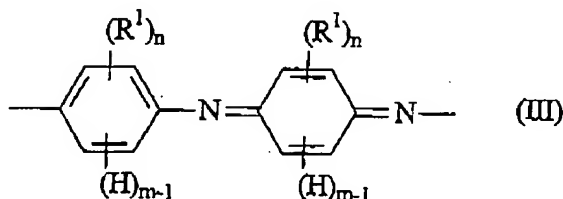
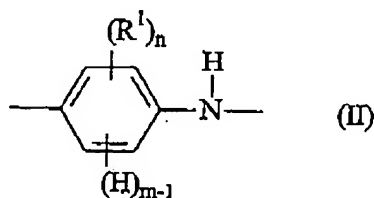
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Listing of Claims

1. (Previously Presented) A composition comprising an aqueous dispersion of at least one polyaniline and at least one colloid-forming fluorinated polymeric acid.
2. (Previously Presented) A composition according to Claim 1, wherein said polyaniline has at least one aniline monomer units having a formula selected from the group consisting of Formula II or Formula III.



wherein:

n is an integer from 0 to 4;

m is an integer from 1 to 5, with the proviso that $n + m = 5$; and

R^1 is independently selected so as to be the same or different at each occurrence and is selected from alkyl, alkenyl, alkoxy, cycloalkyl, cycloalkenyl, alkanoyl, alkythio, aryloxy, alkylthioalkyl, alkylaryl, arylalkyl, amino, alkylamino, dialkylamino, aryl, alkylsulfinyl, alkoxyalkyl, alkylsulfonyl, arylthio, arylsulfinyl, alkoxycarbonyl, arylsulfonyl, carboxylic acid, halogen, cyano, or alkyl substituted with one or more of sulfonic acid, carboxylic acid, halo, nitro, cyano or epoxy moieties; or any two R^1 groups together may form an alkylene or alkenylene chain completing a 3, 4, 5, 6, or 7-membered aromatic or alicyclic ring, which ring may optionally include one or more divalent nitrogen, sulfur or oxygen atoms.

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3. (Original) A composition according to Claim 2, wherein m is 5.
4. (Previously Presented) A composition according to Claim 1, wherein said colloid-forming polymeric acid is selected from the group consisting of polymeric sulfonic acids, polymeric carboxylic acids, polymeric acrylic acids, polymeric phosphoric acids, polymeric phosphonic acid and mixtures thereof.
5. (Original) A composition according to Claim 1, wherein said polymeric acid comprises a fluorinated polymeric sulfonic acid.
6. (Previously Presented) A composition according to Claim 5, wherein said fluorinated polymeric sulfonic acid comprises a perfluoroalkylenesulfonic acid.
7. (Previously Presented) The composition of Claim 1 further comprising at least one selected from the group consisting of a conductive polymer, metal particles, graphite fibers, graphite particles, carbon nanotubes, carbon nanoparticles, metal nanowires, organic conductive inks, organic conductive pastes, inorganic conductive inks, inorganic conductive pastes, charge transport materials, semiconductive inorganic oxide nanoparticles, insulating inorganic oxide nano-particles, piezoelectric oxide nano-particles, piezoelectric polymers, pyroelectric oxide nano-particles, pyroelectric polymers, ferroelectric oxide nano-particles, ferroelectric polymers, dispersing agents, crosslinking agents and combinations thereof.
- 8.-21. (Canceled)
22. (Previously Presented) A composition according to Claim 5, wherein said fluorinated polymeric sulfonic acid comprises a perfluorinated, carbon backbone and side chains represented by the formula
- $$-(O-CF_2CFR_f)_a-O-CF_2CFR'_fSO_3X$$
- wherein R_f and R'_f are independently selected from F, Cl or a perfluorinated alkyl group having 1 to 10 carbon atoms, a = 0, 1 or 2, and X is H.